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## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

(i) APPLICANT: Bednar, Martin M.
Thomas, G. Roger
Gross, Cordell E.

- (ii) TITLE OF INVENTION: ANTI-CD18 ANTIBODIES IN STROKE
- 10 (iii) NUMBER OF SEQUENCES: 15
  - (iv) CORRESPONDENCE ADDRESS:
    - (A) ADDRESSEE: Genentech, Inc.
    - (B) STREET: 460 Point San Bruno Blvd
    - (C) CITY: South San Francisco
      - (D) STATE: California
      - (E) COUNTRY: USA
      - (F) ZIP: 94080
- 20 (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: WinPatin (Genentech)
  - (vi) CURRENT APPLICATION DATA:
    - (A) APPLICATION NUMBER: P0987R1
    - (B) FILING DATE: 22-Jan-1997
    - (C) CLASSIFICATION:
    - (viii) ATTORNEY/AGENT INFORMATION:
      - (A) NAME: Lee, Wendy M.
      - (B) REGISTRATION NUMBER: 40,378
      - (C) REFERENCE/DOCKET NUMBER: P0987r1
    - (ix) TELECOMMUNICATION INFORMATION:
      - (A) TELEPHONE: 415/225-1994
      - (B) TELEFAX: 415/952-9881
      - (C) TELEX: 910/371-7168
      - (2) INFORMATION FOR SEQ ID NO:1:
        - (i) SEQUENCE CHARACTERISTICS:
          - (A) LENGTH: 98 amino acids
          - (B) TYPE: Amino Acid
          - (D) TOPOLOGY: Linear
        - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
- Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser 1 5 10 15
  - Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys 20 25 30
  - Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala 35 40 45

	Leu	Thr	Ser	Gly	Val 50	His	Thr	Phe	Pro	Ala 55	Val	Leu	Gln	Ser	Ser 60
5	Gly	Leu	Tyr	Ser	Leu 65	Ser	Ser	Val	Val	Thr 70	Val	Pro	Ser	Ser	Ser 75
J	Leu	Gly	Thr	Gln	Thr 80	Tyr	Ile	Cys	Asn	Val 85	Asn	His	Lys	Pro	Ser 90
10	Asn	Thr	Lys	Val	Asp 95	Lys	Arg	Val 98							
	(2)	INFO	RMAT	ION I	FOR S	SEQ I	ID NO	0:2:							
15	(.	(1		ENGTI YPE:		ami no Ac	ino a cid		5						
20	(x.	i) SI	EQUE	VCE I	DESC	RIPT	ON:	SEQ	ID 1	10:2	:				
20	Ala 1	Ser	Thr	Lys	Gly 5	Pro	Ser	Val	Phe	Pro 10	Leu	Ala	Pro	Cys	Ser 15
25	Arg	Ser	Thr	Ser	Glu 20	Ser	Thr	Ala	Ala	Leu 25	Gly	Cys	Leu	Val	Lys 30
	Asp	Tyr	Phe	Pro	Glu 35	Pro	Val	Thr	Val	Ser 40	Trp	Asn	Ser	Gly	Ala 45
30	Leu	Thr	Ser	Gly	Val 50	His	Thr	Phe	Pro	Ala 55	Val	Leu	Gln	Ser	Ser 60
35	Gly	Leu	Tyr	Ser	Leu 65	Ser	Ser	Val	Val	Thr 70	Val	Pro	Ser	Ser	Asn 75
	Phe	Gly	Thr	Gln	Thr 80	Tyr	Thr	Cys	Asn	Val 85	Asp	His	Lys	Pro	Ser 90
40	Asn	Thr	Lys	Val	Asp 95	Lys	Thr	Val 98							
	(2)	INFO	RMATI	ON I	FOR S	SEQ ]	D NO	0:3:							
45	(:	( <i>I</i>		ENGTH PE:		ami no Ac	ino a		5						
50	(x:	i) SE	EQUE	ICE I	DESC	RIPTI	ON:	SEQ	ID N	10:3	:				
	Ala 1	Ser	Thr	Lys	Gly 5	Pro	Ser	Val	Phe	Pro 10	Leu	Ala	Pro	Cys	Ser 15
55	Arg	Ser	Thr	Ser	Gly 20	Gly	Thr	Ala	Ala	Leu 25	Gly	Cys	Leu	Val	Lys 30
	Asp	Tyr	Phe	Pro	Glu 35	Pro	Val	Thr	Val	Ser 40	Trp	Asn	Ser	Gly	Ala 45



											,				
	Leu	Thr	Ser	Gly	Val 50	His	Thr	Phe	Pro	Ala 55	Val	Leu	Gln	Ser	Ser 60
5	Gly	Leu	Tyr	Ser	Leu 65	Ser	Ser	Val	Val	Thr 70	Val	Pro	Ser	Ser	Ser 75
J	Leu	Gly	Thr	Gln	Thr 80	Tyr	Thr	Cys	Asn	Val 85	Asn	His	Lys	Pro	Ser 90
10	Asn	Thr	Lys	Val	Asp 95	Lys	Arg	Val 98							
	(2)	INFO	RMAT]	ON 1	FOR S	SEQ I	ID NO	0:4:							
15	(	(1	EQUEN A) LI B) TY	ENGTI	H: 98 Amir	ami no Ad	ino a cid		5						
20	(x	i) Sl	EQUE	VCE I	DESC	RIPTI	ON:	SEQ	ID N	10:4	:				
20	Ala 1	Ser	Thr	Lys	Gly 5	Pro	Ser	Val	Phe	Pro 10	Leu	Ala	Pro	Cys	Ser 15
25	Arg	Ser	Thr	Ser	Glu 20	Ser	Thr	Ala	Ala	Leu 25	Gly	Cys	Leu	Val	Lys 30
	Asp	Tyr	Phe	Pro	Glu 35	Pro	Val	Thr	Val	Ser 40	Trp	Asn	Ser	Gly	Ala 45
30	Leu	Thr	Ser	Gly	Val 50	His	Thr	Phe	Pro	Ala 55	Val	Leu	Gln	Ser	Ser 60
35	Gly	Leu	Tyr	Ser	Leu 65	Ser	Ser	Val	Val	Thr 70	Val	Pro	Ser	Ser	Ser 75
	Leu	Gly	Thr	Lys	Thr 80	Tyr	Thr	Cys	Asn	Val 85	Asp	His	Lys	Pro	Ser 90
40	Asn	Thr	Lys	Val	Asp 95	Lys	Arg	Val 98							
	(2)	INFO	RMATI	ON I	FOR S	SEQ ]	D NO	5:5:							
45	(.	( <i>1</i>	EQUEN A) LE B) TY	ENGTI PE:	i: 10 Amir	)7 an 10 Ac	nino cid		is						
50	(x.	i) SI	EQUE	ICE I	DESC	RIPTI	ON:	SEQ	ID N	10:5:	:				
30	Arg 1	Thr	Val	Ala	Ala 5	Pro	Ser	Val	Phe	Ile 10	Phe	Pro	Pro	Ser	Asp 15
55	Glu	Gln	Leu	Lys	Ser 20	Gly	Thr	Ala	Ser	Val 25	Val	Cys	Leu	Leu	Asn 30
	Asn	Phe	Tyr	Pro	Arg 35	Glu	Ala	Lys	Val	Gln 40	Trp	Lys	Val	Asp	Asn 45



	Ala	Leu	Gln	Ser	Gly 50	Asn	Ser	Gln	Glu	Ser 55	Val	Thr	Glu	Gln	Asp 60
5	Ser	Lys	Asp	Ser	Thr 65	Tyr	Ser	Leu	Ser	Ser 70	Thr	Leu	Thr	Leu	Ser 75
J	Lys	Ala	Asp	Tyr	Glu 80	Lys	His	Lys	Val	Tyr 85	Ala	Cys	Glu	Val	Thr 90
10	His	Gln	Gly	Leu	Ser 95	Ser	Pro	Val	Thr	Lys 100	Ser	Phe	Asn	Arg	Gly 105
	Glu	Cys 107													
15	(2)	INFO	RMAT:	ION 1	FOR S	SEQ :	ID NO	0:6:							
20	(.	() (1	A) LI B) T		H: 10 Ami	05 ar			ds						
	(x.	i) S	EQUEI	NCE I	DESC	RIPT	ION:	SEQ	ID N	10:6	:				
25	Gln 1	Pro	Lys	Ala	Ala 5	Pro	Ser	Val	Thr	Leu 10	Phe	Pro	Pro	Ser	Ser 15
	Glu	Glu	Leu	Gln	Ala 20	Asn	Lys	Ala	Thr	Leu 25	Val	Cys	Leu	Ile	Ser 30
30	Asp	Phe	Tyr	Pro	Gly 35	Ala	Val	Thr	Val	Ala 40	Trp	Lys	Ala	Asp	Ser 45
35	Ser	Pro	Val	Lys	Ala 50	Gly	Val	Glu	Thr	Thr 55	Thr	Pro	Ser	Lys	Glr 60
	Ser	Asn	Asn	Lys	Tyr 65	Ala	Ala	Ser	Ser	Туr 70	Leu	Ser	Leu	Thr	Pro 75
40	Glu	Gln	Trp	Lys	Ser 80	His	Arg	Ser	Tyr	Ser 85	Cys	Gln	Val	Thr	His 90
	Glu	Gly	Ser	Thr	Val 95	Glu	Lys	Thr	Val	Ala 100	Pro	Thr	Glu	Cys	Ser 105
45	(2)	INFO	RMAT:	ION 1	FOR S	SEQ :	ID NO	0:7:							
50	(	(	A) LI B) T		H: 10 Ami	00 ai no A	mino cid		ds						
	(x	i) S	EQUEI	NCE 1	DESCI	RIPT	ION:	SEQ	ID 1	NO:7	:				
55	Ala 1	Ser	Thr	Lys	Gly 5	Pro	Ser	Val	Phe	Pro 10	Leu	Ala	Pro	Ser	Pro
	Lys	Asn	Ser	Ser	Met 20	Ile	Ser	Asn	Thr	Pro 25	Ala	Leu	Gly	Cys	Leu 30

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	Val Lys	Asp Tyr	Phe 35	Pro	Glu	Pro	Val	Thr 40	Val	Ser	Trp	Asn	Ser 45
5	Gly Ala	Leu Thr	Ser 50	Gly	Val	His	Thr	Phe 55	Pro	Ala	Val	Leu	Gln 60
3	Ser Ser	Gly Leu	Tyr 65	Ser	Leu	Ser	Ser	Val 70	Val	Thr	Val	Pro	His 75
10	Gln Ser	Leu Gly	Thr 80	Gln	Thr	Туr	Ile	Cys 85	Asn	Val	Asn	His	Lys 90
	Pro Ser	Asn Thr	Lys 95	Val	Asp	Lys	Arg	Val 100					
15	(2) INFOR	MATION	FOR S	SEQ I	D NO	0:8:							
20	(A (B	QUENCE (1) LENGT: (3) TYPE: (4) TOPOLO	H: 11 Amir	l ami	ino a cid		5						
	(xi) SE	QUENCE :	DESC	RIPT	ON:	SEQ	ID 1	10:8	:				
25	Pro Lys 1	Asn Ser	Ser 5	Met	Ile	Ser	Asn	Thr 10	Pro 11				
	(2) INFOR	MATION	FOR S	SEQ I	D NO	0:9:							
30	(A (B	QUENCE ( LENGT) TYPE: TOPOL	H: 8 Amir	amir no Ad	no ad								
35	(xi) SE	QUENCE 1	DESC	RIPTI	ON:	SEQ	ID N	10:9	:				
	His Gln 1	Asn Leu	Ser 5	Asp	Gly	Lys 8							
40	(2) INFOR	MATION	FOR S	SEQ ]	D NO	0:10:	:						
	(i) SE (A (B (D	) TYPE:	H: 23 Amir	32 am 10 Ac	nino cid		ds						
45	(xi) SE	QUENCE !	DESCE	RIPTI	ON:	SEQ	ID N	10:10	D:				
50	Glu Val 1	Gln Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15
50	Gly Ser	Leu Arg	Leu 20	Ser	Cys	Ala	Thr	Ser 25	Gly	Tyr	Thr	Phe	Thr 30
55	Glu Tyr	Thr Met	His 35	Trp	Met	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45
	Glu Trp	Val Ala	Gly 50	Ile	Asn	Pro	Lys	Asn 55	Gly	Gly	Thr	Ser	His 60



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	Asn G	3ln Ar	g Phe	Met 65	Asp	Arg	Phe	Thr	Ile 70	Ser	Val	Asp	Lys	Ser 75
5	Thr S	Ser Th	r Ala	Tyr 80	Met	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90
·	Thr P	Ala Va	l Tyr	Туг 95	Cys	Ala	Arg	Trp	Arg 100	Gly	Leu	Asn	Туr	Gly 105
10	Phe A	Asp Va	l Arg	Tyr 110	Phe	Asp	Val	Trp	Gly 115	Gln	Gly	Thr	Leu	Val 120
	Thr V	/al Se	r Ser	Ala 125	Ser	Thr	Lys	Gly	Pro 130	Ser	Val	Phe	Pro	Leu 135
15	Ala F	Pro Se	r Ser	Lys 140	Ser	Thr	Ser	Gly	Gly 145	Thr	Ala	Ala	Leu	Gly 150
20	Cys I	Leu Va	l Lys	Asp 155	Tyr	Phe	Pro	Glu	Pro 160	Val	Thr	Val	Ser	Trp 165
20	Asn S	Ser Gl	y Ala	Leu 170	Thr	Ser	Gly	Val	His 175	Thr	Phe	Pro	Ala	Val 180
25	Leu G	3ln Se	r Ser	Gly 185	Leu	Tyr	Ser	Leu	Ser 190	Ser	Val	Val	Thr	Val 195
	Pro S	Ser Se -	r Ser	Leu 200	Gly	Thr	Gln	Thr	Tyr 205	Ile	Cys	Asn	Val	Asn 210
30	His I	Lys Pr	o Ser	Asn 215	Thr	Lys	Val	Asp	Lys 220	Lys	Val	Glu	Pro	Lys 225
35	Ser C	Cys As	p Lys	Thr 230	His	Thr 232								
33	(2) IN	IFORMA	TION	FOR :	SEQ :	ID NO	D:11:	:						
40	(i)	(A) (B)	ENCE LENGT TYPE: TOPOL	H: 2 Ami	14 ar no Ao	mino cid		ds						
	(xi)	SEQU	ENCE	DESCI	RIPT	ON:	SEQ	ID N	10:12	l:				
45	Asp I 1	le Gl	n Met	Thr 5	Gln	Ser	Pro	Ser	Ser 10	Leu	Ser	Ala	Ser	Val 15
50	Gly A	Asp Ar	g Val	Thr 20	Ile	Thr	Cys	Arg	Ala 25	Ser	Gln	Asp	Ile	Asn 30
	Asn T	Yr Le	u Asn	Trp 35	Tyr	Gln	Gln	Lys	Pro 40	Gly	Lys	Ala	Pro	Lys 45



Leu Leu Ile Tyr Tyr Thr Ser Thr Leu His Ser Gly Val Pro Ser 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile 65 70 75

	Ser	Ser	Leu	Gln	Pro 80	Glu	Asp	Phe	Ala	Thr 85	Tyr	Tyr	Cys	Gln	Gln 90
E	Gly	Asn	Thr	Leu	Pro 95	Pro	Thr	Phe	Gly	Gln 100	Gly	Thr	Lys	Val	Glu 105
5	Ile	Lys	Arg	Thr	Val 110	Ala	Ala	Pro	Ser	Val 115	Phe	Ile	Phe	Pro	Pro 120
10	Ser	Asp	Glu	Gln	Leu 125	Lys	Ser	Gly	Thr	Ala 130	Ser	Val	Val	Cys	Leu 135
	Leu	Asn	Asn	Phe	Tyr 140	Pro	Arg	Glu	Ala	Lys 145	Val	Gln	Trp	Lys	Val 150
15	Asp	Asn	Ala	Leu	Gln 155	Ser	Gly	Asn	Ser	Gln 160	Glu	Ser	Val	Thr	Glu 165
20	Gln	Asp	Ser	Lys	Asp 170	Ser	Thr	Tyr	Ser	Leu 175	Ser	Ser	Thr	Leu	Thr 180
	Leu	Ser	Lys	Ala	Asp 185	Tyr	Glu	Lys	His	Lys 190	Val	Tyr	Ala	Cys	Glu 195
25	Val	Thr	His	Gln	Gly 200	Leu	Ser	Ser	Pro	Val 205	Thr	Lys	Ser	Phe	Asn 210
	Arg	Gly	Glu	Cys 214											
30	(2)	INFO	RMAT	ION I	FOR S	SEQ :	D NO	0:12	:						
	(:	(7	A) LI	NCE ( ENGTI	H: 45	50 ar	nino		ds						
35	(:	(1	A) LI 3) T		H: 45 Amir	50 ar	nino cid		ds						
35	·	(	A) LI 3) T' O) T(	ENGTI YPE:	H: 45 Amir DGY:	50 ar no Ad Line	mino cid ear	acio		NO:12	2:				
35 40	(x:	() (I (I i) SI	A) LI 3) TY O) TO	ENGTI YPE: OPOLO	H: 45 Amir DGY:	50 ar no Ad Line	mino cid ear	acid SEQ	ID 1			Val	Gln	Pro	Gly 15
	(x: Glu 1	(I (I (I i) SI Val	A) LI 3) TY D) TO EQUEN	ENGTI YPE: OPOLO NCE I Leu	H: 45 Amir DGY: DESCH Val 5	50 ar no Ad Lind RIPT:	nino cid ear ION:	SEQ Gly	Gly	Gly 10	Leu		Gln Thr		15
	(x: Glu 1 Gly	(I (I (I ) Val Ser	A) LI 3) TY D) TO EQUER Gln Leu	ENGTH YPE: OPOLO NCE I Leu Arg	H: 45 Amir DGY: DESCH Val 5 Leu 20	50 ar no Ao Line RIPT: Glu Ser	nino cid ear ION: Ser	SEQ Gly	ID 1 Gly Thr	Gly 10 Ser 25	Leu Gly	Tyr		Phe	15 Thr 30
40 45	Glu 1 Gly Glu	(I (I (I ) SI Val Ser	A) LH B) TY C) TO EQUEN Gln Leu	ENGTHYPE: OPOLO NCE I Leu Arg Met	H: 45 Amir DGY: DESCH Val 5 Leu 20 His 35	50 am no Ac Line RIPT: Glu Ser	mino cid car CON: Ser Cys Met	SEQ Gly Ala	ID I Gly Thr	Gly 10 Ser 25 Ala 40	Leu Gly Pro	Tyr Gly	Thr	Phe Gly	15 Thr 30 Leu 45
40	Glu 1 Gly Glu Glu	(I (I (I ) Val Ser Tyr	A) Li 3) TY C) TO EQUE  Gln  Leu  Thr	ENGTHYPE: OPOLO NCE I Leu Arg Met	H: 45 Amir DGY: DESCH Val 5 Leu 20 His 35 Gly 50	50 am no Ac Line RIPT: Glu Ser Trp	mino cid car CON: Ser Cys Met Asn	SEQ Gly Ala Arg	ID IGly Thr Gln Lys	Gly 10 Ser 25 Ala 40 Asn 55	Leu Gly Pro Gly	Tyr Gly Gly	Thr Lys	Phe Gly Ser	15 Thr 30 Leu 45 His 60
40 45	Glu Gly Glu Glu Asn	() (I) (Ii) SI Val Ser Tyr Trp Gln	A) Li 3) TY C) TO EQUE  Gln  Leu  Thr  Val  Arg	ENGTHYPE: OPOLO NCE I Leu Arg Met Ala Phe	H: 45 Amir DGY: DESCH Val 5 Leu 20 His 35 Gly 50 Met 65	SO are no Acceptance Asp	mino cid ear CON: Ser Cys Met Asn Arg	SEQ Gly Ala Arg Pro	ID I Gly Thr Gln Lys	Gly 10 Ser 25 Ala 40 Asn 55 Ile 70	Leu Gly Pro Gly Ser	Tyr Gly Gly Val	Thr Lys Thr	Phe Gly Ser Lys	15 Thr 30 Leu 45 His 60 Ser 75
40 45 50	Glu Gly Glu Asn	(I (I (I ) (I ) Val Ser Tyr Trp Gln Ser	A) Li 3) TY C) TO EQUE  Gln  Leu  Thr  Val  Arg	ENGTHYPE: OPOLO NCE I Leu Arg Met Ala Phe Ala	H: 45 Amir DGY: DESCH Val 5 Leu 20 His 35 Gly 50 Met 65 Tyr 80	Ser Trp Ile Asp	mino cid ear CON: Ser Cys Met Asn Arg Gln	SEQ Gly Ala Arg Pro	ID I Gly Thr Gln Lys Thr	Gly 10 Ser 25 Ala 40 Asn 55 Ile 70 Ser 85	Leu Gly Pro Gly Ser Leu	Tyr Gly Gly Val	Thr Lys Thr Asp	Phe Gly Ser Lys Glu	15 Thr 30 Leu 45 His 60 Ser 75 Asp 90
40 45 50	Glu Gly Glu Asn	(I (I (I ) (I ) Val Ser Tyr Trp Gln Ser	A) Li 3) TY C) TO EQUE  Gln  Leu  Thr  Val  Arg	ENGTHYPE: OPOLO NCE I Leu Arg Met Ala Phe Ala	H: 45 Amir DGY: DESCH Val 5 Leu 20 His 35 Gly 50 Met 65 Tyr 80	Ser Trp Ile Asp	mino cid ear CON: Ser Cys Met Asn Arg Gln	SEQ Gly Ala Arg Pro	ID 1 Gly Thr Gln Lys Thr Asn	Gly 10 Ser 25 Ala 40 Asn 55 Ile 70 Ser 85	Leu Gly Pro Gly Ser Leu	Tyr Gly Gly Val	Thr Lys Thr Asp	Phe Gly Ser Lys Glu	Thr 30 Leu 45 His 60 Ser 75 Asp 90 Gly

	Phe	Asp	Val	Arg	Tyr 110	Phe	Asp	Val	Trp	Gly 115	Gln	Gly	Thr	Leu	Val 120
5	Thr	Val	Ser	Ser	Ala 125	Ser	Thr	Lys	Gly	Pro 130	Ser	Val	Phe	Pro	Leu 135
J	Ala	Pro	Cys	Ser	Arg 140	Ser	Thr	Ser	Glu	Ser 145	Thr	Ala	Ala	Leu	Gly 150
10	Cys	Leu	Val	Lys	Asp 155	Tyr	Phe	Pro	Glu	Pro 160	Val	Thr	Val	Ser	Trp 165
	Asn	Ser	Gly	Ala	Leu 170	Thr	Ser	Gly	Val	His 175	Thr	Phe	Pro	Ala	Val 180
15	Leu	Gln	Ser	Ser	Gly 185	Leu	Tyr	Ser	Leu	Ser 190	Ser	Val	Val	Thr	Val 195
	Thr	Ser	Ser	Asn	Phe 200	Gly	Thr	Gln	Thr	Tyr 205	Thr	Cys	Asn	Val	Asp 210
20	His	Lys	Pro	Ser	Asn 215	Thr	Lys	Val	Asp	Lys. 220	Thr	Val	Glu	Arg	Lys 225
25	Cys	Cys	Val	Glu	Cys 230	Pro	Pro	Cys	Pro	Ala 235	Pro	Pro	Val	Ala	Gly 240
	Pro	Ser	Val	Phe	Leu 245	Phe	Pro	Pro	Lys	Pro 250	Lys	Asp	Thr	Leu	Met 255
30	Ile	Ser	Arg	Thr	Pro 260	Glu	Val	Thr	Cys	Val 265	Val	Val	Asp	Val	Ser 270
	His	Glu	Asp	Pro	Glu 275	Val	Gln	Phe	Asn	Trp 280	Tyr	Val	Asp	Gly	Met 285
35	Glu	Val	His	Asn	Ala 290	Lys	Thr	Lys	Pro	Arg 295	Glu	Glu	Gln	Phe	Asn 300
40	Ser	Thr	Phe	Arg	Val 305	Val	Ser	Val	Leu	Thr 310	Val	Val	His	Gln	Asp 315
	Trp	Leu	Asn	Gly	Lys 320	Glu	туг	Lys	Суѕ	Lys 325	Val	Ser	Asn	Lys	Gly 330
45	Leu	Pro	Ala	Pro	Ile 335	Glu	Lys	Thr	Ile	Ser 340	Lys	Thr	Lys	Gly	Gln 345
	Pro	Arg	Glu	Pro	Gln 350	Val	Туr	Thr	Leu	Pro 355	Pro	Ser	Arg	Glu	Glu 360
50	Met	Thr	Lys	Asn	Gln 365	Val	Ser	Leu	Thr	Cys 370	Leu	Val	Lys	Gly	Phe 375
55	Tyr	Pro	Ser	Asp	Ile 380	Ala	Val	Glu	Trp	Glu 385	Ser	Asn	Gly	Gln	Pro 390
	Glu	Asn	Asn	туг	Lys 395	Thr	Thr	Pro	Pro	Met 400	Leu	Asp	Ser	Asp	Gly 405



	Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp 410 415 420
5	Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu 425 430 435
5	His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 440 445 450
10	(2) INFORMATION FOR SEQ ID NO:13:
19	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids
15	(B) TYPE: Amino Acid (D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
00	His Gln Ser Leu Gly Thr Gln 1 5 7
20	(2) INFORMATION FOR SEQ ID NO:14:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 amino acids
25	(B) TYPE: Amino Acid (D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
30	His Gln Asn Ile Ser Asp Gly Lys 1 5 8
	(2) INFORMATION FOR SEQ ID NO:15:
35	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 8 amino acids</li><li>(B) TYPE: Amino Acid</li><li>(D) TOPOLOGY: Linear</li></ul>
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
	Val Ile Ser Ser His Leu Gly Gln 1 5 8
45	